AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Original) A method of producing a molecularly-imprinted material, comprising:

(a) synthesizing a peptide, oligosaccharide or oligonucleotide on a disposable surface modified support to produce a support surface-attached peptide, oligosaccharide or oligonucleotide;

(b) providing a selected monomer mixture;

(c) contacting said monomer mixture with said support surface-attached peptide, oligosaccharide or oligonucleotide;

(d) initiating polymerisation or at least one crosslinking reaction;

(e) dissolving or degrading said support surface-attached peptide, oligosaccharide or oligonucleotide and said support; and

(f) obtaining said molecularly imprinted material.

2. (Original) A method according to claim 1, wherein said peptide of step (c) is a peptide epitope.

3. (Original) A method according to claim 1, wherein step (f) is conducted with the aid of at least one factor consisting of crosslinking agents, heat, and ultraviolet irradiation.

4. (Original) A method according to claim 1, wherein said peptide is selected from the group consisting of FMOC-Phe-Gly-Si, H-Phe-Gly-Si, FMOC-Phe-Si, BOC-Gly-Si, H-Gly-Si, FMOC-Phe-Gly-OH, FMOC-Phe-OH, BOC-Phe-OH, H-Phe-pNA, H-Phe-O-Me, H-Phe-OtBu, BOC-Gly-OH, H-Phe-Gly-NH_2, H-Phe-Gly-Gly-Phe-OH, FMOC-Phe-OH, H-Gly-Phe-OH, and Nociceptin.

5. (Original) A method according to claim 1, wherein said disposable surface activated support is a silane-modified silica or controlled pore glass (CPG).

6. (Original) A method according to claim 1, wherein said monomer mixture comprises monomers selected from the group consisting of styrene/divinyl benzene, methacrylates, acrylates, acrylamides, methacrylamides and combinations thereof.

7. (Original) A method of using a molecularly-imprinted material, comprising:
producing a molecularly-imprinted material according to claim 1; and
using said molecularly-imprinted material as an affinity phase for the separation of biological macromolecules or oligomers.

8. (Original) A method according to claim 7, wherein said biological macromolecules or oligomers are selected from the group consisting of peptides, polypeptides, oligopeptides, proteins, nucleic acids, oligonucleotides, polynucleotides, saccharides, oligosaccharides, and polysaccharides.

9. (Currently amended) A chromatographic stationary phase, comprising a molecularly imprinted material produced according to claim 1, wherein said peptide, oligosaccharide or oligonucleotide of step (c) is selected from the group consisting of FMOC-Phe-Gly-Si, H-Phe-Gly-Si, FMOC-Phe-Si, BOC-Gly-Si, H-Gly-Si, FMOC-Phe-Gly-OH, FMOC-Phe-OH, BOC-Phe-OH, H-Phe-pNA, H-Phe-O-Me, H-Phe-OtBu, BOC-Gly-OH, H-Phe-Gly-NH_2, H-Phe-Gly-Gly-Phe-OH, FMOC-Phe-OH, ~~and~~ H-Gly-Phe-OH, and Nociceptin.